

CLAIMS

What is claimed is:

1. A topical application composition for the prevention and treatment of pediculosis, comprising between 0.2 and 0.3% (w/v) of diallil tiosulphinate, wherein the
5 tiosulphinate diallil compound is extracted from the garlic plant (*Allium sativum* sp).

2. The composition according to claim 1 comprising selected additives from the group consisting of emulsifying agents, aromatic agents, bonding agents, colorants, preserving agents, bactericidal agents and fungicidal agents,
10 surfactants, greasing agents, viscosity agents and combinations thereof.

3. The composition according to claim 2 wherein it is used to elaborate a product from the group comprising hair lotions, hair creams, hair conditioners, shampoo, hair rinse cream, hair gel and topical application powder.

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4. The use of the composition of any of claim 3, characterized because said composition is used for the elaboration of a medicine for prevention and treatment of pediculosis.

20 5. The use of the composition of any of claim 3, characterized because said composition is used for the elaboration of a cosmetic product for prevention of

pediculosis.

6. The composition according to claim 1, comprising also between 0.06% and 0.1% (w/v) of other tiosulphinates and sulfur compounds deriving therefrom, all of them
5 extracted from the garlic plant (*Allium sativum* sp).

7. The composition according to claim 6 comprising selected additives from the group consisting of emulsifying agents, aromatic agents, bonding agents, colorants, preserving agents, bactericidal agents and fungicidal agents,
10 surfactants, greasing agents, viscosity agents and combinations thereof.

8. The composition according to claim 7 where it is used to elaborate a product from the group comprising hair lotions, hair creams, hair conditioners, shampoo, hair rinse cream, hair gel and topical application powder.

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9. The use of the composition of any of claim 8, characterized because said composition is used for the elaboration of a medicine for prevention and treatment of pediculosis.

20 10. The use of the composition of any of claim 8, characterized because said composition is used for the elaboration of a cosmetic product for prevention of

pediculosis.

11. A method for preparation of a diallil tiosulphinate, and other tiosulphinates and sulfur compounds comprises the stages of:

- 5 a) peeling and grinding garlic cloves until a smooth paste is obtained;
- b) heating a quantity of water to its boiling point, adding a quantity of organic acid until obtaining an aqueous solution with pH between 3 and 3.5;
- c) immersing a quantity of the garlic paste obtained in stage a) in a quantity of the boiling aqueous solution of stage b); and
- 10 d) cooling and fractioning the aqueous solution of stage c), wherein said aqueous solution comprises diallil tiosulphinate and other tiosulphinate and sulfur compounds

12. The method according to claim 11, wherein the garlic paste of stage a) and the aqueous solution of stage b) are in equal parts.

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13. The method according to claim 11, wherein the aqueous solution of stage c) contains between 1mg/ml and 4 mg/ml of diallil tiosulphinate.

14. The method according to claim 11, wherein the organic acid is selected from:
20 the group comprised by citric acid, ascorbic acid and combinations thereof.

15. The method according to claim 14, wherein the organic acid is citric acid.